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Elson et al.

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[54] NEEDLE POINT GUARD SAFETY CAP ASSEMBLY

5,823,997 10/1998 Thorne 604/192 X

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[57] ABSTRACT

A needle point cover assembly for securely covering and protecting the needle point after a syringe has been used includes a cover in the form of an elongated hollow member that is open at one end for receiving the needle therein, and at its other end is mostly enclosed by an end wall having a hole through which the needle can pass. A lid encloses the otherwise open end of the cover member. The lid has a hole through which the needle may pass so that the needle may extend through both the lid hole and the hole in the end wall. When the syringe is being used to make an injection, the needle point projects through the hole in the end wall. After an injection has been made and the syringe is ready for disposal, a manually actuable extensible frame slides the cover to where its end wall is beyond the extremity of the needle point. The cover member can then be supported by the hole in the lid and rotated about the lid hole until the needle point passes inside the enclosed end wall of the cover member into a protected position where it cannot pass through the cover member hole.

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Related U.S. Application Data

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[51] Int. Cl.⁷ A61M 5/00

[52] U.S. Cl. 604/192; 604/198; 604/263

[58] Field of Search 604/110, 192,
604/187, 198, 263

[56] References Cited

U.S. PATENT DOCUMENTS

4,735,618 4/1988 Hagen 604/110 X
5,538,508 7/1996 Steyn 604/192
5,700,249 12/1997 Jenkins 604/263
5,738,665 4/1998 Caizza et al. 604/263

22 Claims, 5 Drawing Sheets

